The MINES of ARIZONA

This department is under the direction of Mr. W. E. Defty, the well known mining engineer, who will carefully scrutinize all matters relating to mining in order that only reliable information re-

garding legitimate enterprises shall find a place here. The Republican would be pleased to receive information from any part of the state regarding the development of the mining industry. All communications should be addressed: Mining Department Arizona Republican.

Jerome Verde

The mature of the work now being done at the Jerome Verde is pointed out by L. L. Winkleman & Co. of New York in their latest market letter as

At the moment, particular attention centers on the development work or reached. It is stated they have but creased from 240 to 500 tons daily. 100 feet yet to go before this point is reached, and from the line of contincity between the two mines the direction will be north.

Judging from the general trend of Extension, it looks as if the ore body would pass through a portion of Je rome Verde's ground. The company also contemplates sinking a second short at about the center of its prop most advantageous point for the sink-

The mine making pessibilities of Jereme Verde are exceptional, considering that its property lies between two of the best producers in the state

Jerome Victor

Unwatering of the shafts of the Jerome Victor Extension, has begun. All of the copper in the Jerome camp is said to be found below the water level ing there will be no difficulty en countered in keeping the shafts dry as the property is equipped with splendid mos and has ample ower from the high tension lines ronning to the land. The comany will at once commence g and will, at the same time, explore and develop the several or stringers said to have been cu through by the old management.

The Arkansas & Arizona Copper Co reports sufficient proxies in hand to assure the merger with the adjoining stowles property, and financing of development work by New York interexts. The properties adjoin United States Verde and Jerome at Jerome. The proposed merger will be voted up-

Consolidated Arizona Smelting Co. In his report for the past year, the general manager, G. M. Colvocoresses, covers operation of the smelter at Humboldt and the Blue Bell and De

the filue Bell development

W. LIBBEY ASSAY OFEICE

307 North First Street

eneral assaying: determinations

TIRES

Goods shipped to all points C. O.

turned intact within one week.

..... 8.95

..... 9.45

..... 13.20

..... 13.85

..... 14.05

***** 10.95

33x4 14.70 34x4 14.95 35x4 15.65 36x4 15.85 34x4½ 20.25 35x4½ 20.85

36×41/2 21,25

37×41/2 21.90

..... 23,65

24.90

Non-Skid Prices in Proportion

36x41/2 CL or SS 14.00

Prices Subject to Change Without

Automobile Tire Co.

36×31/2

Size

28×3

30×3

31×31/

32×31/9

35x5

30×31/2 SS

34x31/2 CL

37x5 CL or SS .

Money refunded on goods re-

Special Prices Tubes

2.15

2.40

2.95

3,10 3.15

3.30 3.85

4.15

4.70

4.60

5.20

5.45

15.00

Plain Treads Gray

.....\$ 6.55 \$1.75

12.05

(Successor to J. S. Neall)

the rarer metals; cyanide tests.

estimated at 235,000 tons, averaging 1.5 per cent copper and \$1.50 gold and silver. Prospects for a large increase in tonnage are good. A new hoist of 2000 ft. capacity was erected. The output was \$2,171 tons, assaying 2.97 per cent copper and \$1.40 in preciousmetats. This was an increase of 26,171 tons over that of 1914. The current year will also be greater. All mining charges were \$2,629 per ton. The De-Soto mine was re-opened and fully equipped, producing 8360 tons of ore, containing 3.5 per cent copper and \$1.50 gold and silver. The present outmt is at the rate of 40,000 tons per year. Reserves are 65,000 tons. Eight ore-shoots, none very large, are being mined. The future of this mine is also good.

The mill treated \$1,544 tons of ore and tailing averaging 2.83 per cent. copperf, with 88.6 per cent recovery of metal, 62.5 per cent of the gold, its property now being prosecuted by and 70.5 per cent of the silver. There dred feet in length and about ninety the United Verde Extension under an was produced 19,877 tons of 10.27 per feet in width, is being developed and today. cent copper concentrate. Results were targons to both compannies. The work far in advance of those for 1914. The to be undertaken on the Jerome Verde cost, including flotation royalty, was property by the United Verde Exten- \$1.20 per ton, against \$1.82 in 1914, two hundred feet, thus determining sion includes the running of a drift and \$2,09 in 1913. Only gravity consouth on the 1400-foot level until the centration was employed in the latter

the recent strike in the United Verde \$2.34 per ton, a reduction of \$2.21 per in the old inclined winze but as this the 19 by 60-ft, furnace. The en- to be at the bottom of the incline. bound, against 12.92c.

272, at the mines and plants. The man- intersect the ore bodies.

Inspiration Consolidated

reach 10,000,000 pounds monthly output property of copper for the first time comparing with 2,509,000 in April, 9,300,000 pounds in March and 7,900,000 (net) in February. The present 18 units are up to rated capacity of 860 tons daily. The two new units recently ordered, makng 20 in all, will insure maintaining few penales under \$6 per share per the gist of which is as follows: reserve developed.

at the rate of nearly \$6 per share per annum. In the first quarter the com- | tion. Section 700,000 pounds per month.

figures compare with the December siderable period. quarter as follows:

Quarter Dec. 31, 1915; Copper lbs. 1,892,453; cost copper lb., 8.38c; averprofit. \$183,765.

Quarter March 31, 1916; Copper, Ibs. average selling price 22,39c; operating plant 50 per cent. trofit \$270.201.

Arizona produces

low Cornelia.

ey report on sulphuric acid production s a by-product from zinc and copper smelting in 1915 shows that zinc smelters produced 484,942 tons of 60-detons of 50-degree acid, worth \$2,749,. In size and in value as it is driven. 633, or \$7.63 per ton. Copper smelters sources in the United States in 1915 up a fine grade of milling ore. was 3,868,152 short tons of 50 degree strength, worth \$29,869,680 and 189,152 tons of concentrated acid worth \$2,787,-

part of the year. Green Monster Mining Co.

Jerome, Arizona, May 26th. To the stockholders of the Green Mon- favorable indication. ster Mining Co.: Gentlemen:-Your directors

eave to report as follows regarding the affairs of your company: The recent issue and sale of 700,000 the returns on the first 15 totalled shares of the stock of your company about \$35,000 gross. Among the shipwas a complete success and the issue mants were two cars of very high grade was very largely oversubscribed. The ore which brought \$6,300. On the 900proceeds of this sale are available for foot level a streak of ore four inches the extensive work contemplated in wide is reported which runs 72 per the development of what is one of the cent corper with good gold and silver largest mining properties in the Jerome values.

district. At the present time there is more Again the Resurrection of the Old than \$500,000.00 in the treasury and as it is impossible to fully develop this C. V. Koontz & Co, are issuing a cirgreat work within a period of months, cular stock letter on this property. The the major portion of the treasury funds main feature, possibilities and future has been placed on deposit with strong are mainly rested upon the facts that banking institutions in Arizona and the property adjoins the Magma, which Texas, on Certificates of Deposit bear- in reality it does not. However here ing four per cent interest, and the in- are extracts from the circular, our come derived from these deposits, readers can choose themselves regard-amounting to about \$18,000,00 per annum, is much more than sufficient to You probably received a letter from

siderable increase of cash capital.

There are 200,000 shares of the capital stock of your company unissued. Work of development is being done on two promising claims of the Green amounted to 2743 ft., opening 165,000

"Revenue." 150 ft. to 1000 ft. depth. Reserves are Owing to the complex geological conditions encountered, it has been terapting to sink a shaft, in order to letermine the most scientific and ecnomical method of uncovering the ores which are confidently expected to over \$17 a share oe found at depth.

Ore assaying about \$6.00 per ton has "Circen Monster" turnels.

terial benefit in saving time and money and with the new work being done

by extending a short tunnel nearby for about three hundred feet, the outcrop will be reached at a depth of nearly the advisability of sinking deeper.

On the "Badger" claim by driving a year. Toe plant's capacity is to be innection will be made with the inclined The smelter reduced 61,934 tons ma- winze of the "Brookshire" claim and ternal yielding 5,762,974 lb, copper, 2095 develop that property at considerable property of the Silver King, from \$2.00 oz. gold and \$1,647 oz. silver. Of the depth. At present it is impossible to up daily, depending upon the ambicopper, 1,370,974 lb. was custom metal. further develop the ore in sight in the tion, nerve and industry of the The cost of reducing to matte was "Brookshire" on account of the water ton, and the cost of converting matte new tunnel from the "Badger" claim of copper. A new 19 by 100-ft, rever- be an easy matter to dewater the old

to expectations, a deep shaft will be

of production. The year's profit was rectors to keep the stockholders fully informed from time to time, or the

Neill E. Bailey, David Morgan, Thomas Taylor. W. S. Humbert.

recently. Inspiration could earn a man secret substitute for manganese,

ammum even on such lean ore, and on In smelting manganese ore into 14-cent copper has some 15 years' ore ferro-manganese, there has always been o considerable loss (20 per cent to 25 per cent) which runs off in the slag; and which loss is dependent up-Magma Copper Co. is now earning on the analysis of the ores and the ingredients necessary in their reduc-

sany owing to previous contracts re- It seems that the Germans are now elved "only" 22.35c per pound of cop- working over all these old slag piles, per, whereas the average price in the and are recovering a considerable open market was over 25c. The com- amount of manganese at an expensrecovering a considerable quickly. pany has contracted for much of its that would not be warranted under output for the rest of the year at 25%c normal conditions, but with the price per sound. Costs are around 94c of manganese products several times 9.13c in the first quarter) and pro- normal it is now found to be a profitable operation, to which steel-makers "he company's reports for the March | here may be obliged to resort, if the plarter net profits of \$270,201. The war should continue for a further con-

& Aefining company's Hayden smelter. The excavation is practically complete. 2.042.784; cost copper per lb., 9.12c; This will increase the capacity of the is tradually being realized in this

The present normal capacity of the smelter is now 25,000 tons of ore a month, and it has been turning out no sulphuric acid 8,000,600 pounds of copper monthly. great quantities of the material to was burned down, the plant has been is sent into the atmosphere handicapped. The sampling mill is laily. The Calumet & Arizona at now being rebuilt and will be com-Douglas are now installing a plant for plete about May 20. When the mill is place, the manufacture of the acid for the finished the Christmas mine, which is reatment of its carbonate ore at the also owned by the A. S. & R. company, will begin shipping 250 tons of ore The United States Geological Sur- day to the smelter.

Commonwealth Extension The report of developments by this

company at Pearce, indicates that the gree acid, worth \$4,292,493, or \$8.85 per east drift, on the 220 level, has again ton; copper smelters produced 360,552 come in ore which promises to increase

The superintendent also reports that also produced 59,189 tons of concen- the drift being driven by the Commontrated acid worth \$579.115, or \$9.78 per wealth Mining and Milling company ton. The total tonnage, reduced to west from the Rainbow shaft, to tap 50-degree strength, equalled 1,056,830 the southern portion of the company's and was worth \$7,621,241. The total ground, is just about across the side production from all lines of the property and has opened

Boston & Arizona

The manager of the Boston & Ari-971. a total of \$32,657,651. Zinc and zona properties report that in doing copper smelters produced more than some work one of the three claims re-25 per cent total values. Values are some galena indicating extensive minreckoned at prices actually contracted eralization. The main tunnel is going for and not open-market prices which in steadily and while still in limestone were much higher during the latter is rapidly approaching the contact which contains the ore bodies exposed on the surface. Galena and some copper sulphides still show in the face

We understand that Iron Cap shipped 23 cars of ore during April and that

Silver King

take care of the overhead expense of its some time within the last day or poration under the laws of Arizona, point from among their own number

two, telling you that a subscription to company controlling the Silver King mine of Arizona, would no doubt yield you very large profits quickly. The Silver King company is to be in-corporated for \$1,500,000, in shares of tons of new ore. The shaft was sunk Monster group, the "Cliff" and the the par value of \$1,00 each. The company will own a property which has vielded, according to reports which can be in our estimation depended upon, deemed wise to make a thorough ex- between \$10,000,000, and \$15,000,000. ploration of these properties before at- This property adjoins the estate owned by Magma Copper. The stock of this company is now regularly traded in on the New York curb and is selling at

> We were informed vesterday that both the Silver Queen (which is now already been found near the surface in Magma) and the Silver King) closed he "Cliff" workings, and low grade ore down many years ago within ten days encountered in the "Cliff" and of each other, because of the low price of silver. We have reports in our of-Advantage is being taken of some of fice which tell in detail the merits of the old workings on the property and Silver King. We shall be glad to show while they are not available for use these reports to you. We also have at great depth, yet they are of ma- information from the last superintendent of Silver King, stating that it will not take over 60 to 90 days to unwater on them, will be useful in the develop-ment for several hundred feet in idle for many years, and to demonstrate_the property's merit. It is A most promising outcrop on the needless to say that process of reduc-"Revenue" claim, more than five hun- tion of ore twenty or twenty-five years ago was much less perfect than it is

We have been informed that the "damps," (meaning the ore which was of too low grade to be milled in the days when the Silver King was operating at capacity, and the supposedto-be worthiess remnants of ore which had passed through the plants) have been vielding to persons having no right whatever to even come on the "picker.

We do not intend to attempt to estimate the value of these "damps," or to blister copper was \$0.0046 per pound will intersect it at a lower level it will the low grade ore in sight. We do suggest that you invest in the stock of was built, now working with workings and explore the ore body said the Silver King mine of Arizona at present prices, because we have been and adopt the following Articles of an Executive Committee which, to cope in the City of Phoenix in the erry. Fingineers have been on the larged smelter enables custom work to ground several weeks, determining the be profitably done. The total cost of on the promising outcrops on the "Amproducing copper was 13.327c. per azon claim and should they prove up property of the Magma Copper company adjoins the Silver King, but is Chambers Transfer and Storage Com- tors by these Artic New construction amounted to \$155,- sunk and cross cuts driven at depth to lower in elevation. While Magma, (or pany and its principal place of transas it was called, the Silver Queen) at- acting business in Arizona is Phoenix, ager recommends that \$15,000 be spent A very complete geological report tained copper ore at about the 900-foot offices may be established, business or liability to which the Corporation sisting of dwelling house and etc. expedient, eventually reducing the cost ter and it is the intention of your ditained. According to the reports which by laws shall provide have been presented to us, copper was work accomplished and contemplated, commencing to come isto the ore when work accomplished and contemplated. The general nature of the business holders of this Corporation shall be on confirmation of the sale by the

Second-The property of the com-10,000,000 pounds monthly output even on the very leanest ore—yielding only 20 pounds a ton very leanest ore—yielding only tains an expose of the so-called Gerthe past year.

> les of those on record in Washington. Fourth-The persons interested in this proposition are of such high standing that even without other endorsement we would almost necessar-Hy have to believe that a second Magma Copper can be opened up and very

STRENGTH IN SILVER

That silver prices have not by any age selling price 18.19c; operating being acced at the American Smelting tion, and the prospects of silver to the Comment of the Selling price 18.19c; operating being acceded at the American Smelting some extent replacing gold for the the Corporation, conversion of paper money in Europe

probably not far from the mark to hold sonal property, services, lease,

The war, however, must assume have held and still hold that silver shall be conclusive would have seen brighter days without the vast conflict abroad.

wrought many changes and will bring the issuance to it of a Certificate of about many more. The large issues of Incorporation by the Arizona Corporabonds and paper money by the dif- tion Commission and the termination ferent belligerents necessarily caused thereof shall be twenty-five years the locking-up of all available gold, thereafter, with privilege of renewal so that the governments concerned perpetual succession as provided by may have absolute control over the law, yellow metal.

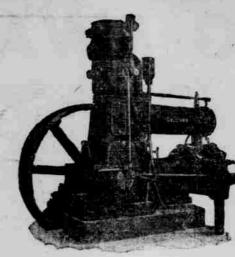
Dundee Arizona

Saturday, and there were transactions the By-laws of the Company. Arizona, it will become a listed stock. sons shall be the Directors:

The Dundee claims adjoin those of the United Verde Extension. The Dundee Arizona is an Alexander Mackay Stephen, also of Dundee, Scotland, are

shows cash in banks of \$55,293; nc-

Transmission Machinery, Hoisting Machinery Steel Cable Belting, Packing



Engines for every purpose from 11/2 to 500 Horsepower. Prompt delivery assured.

COMPLETE MINE EQUIPMENT

Our Stocks of Mining and Milling Supplies Were Never More Complete Than They Are Now

We are in position to make any installations you may require-no matter how large or how small. FOOS MINE HOISTS-SULLIVAN LINE OF COMPRESSORS-DRILLING MACHINERY-Wire Rope-Hoisting Cable, Pulleys, Shovels, Picks, Pipe and Pipe Fittings, Brass Goods. State distributors for HART LINE OF STOCKS AND DIES. Tell us of your requirements.

PRATT-GILBERT COMPANY

Jobbers-Distributors

Phoenix, Arizona

ARTICLE I

ARTICLE II Inspiration in May is expected to touch with the development of their interested ourselves in the Silver King a general transfer, drayage, storage mine of Arlzona because of, from the first time comparing Respectfully, First—Capitalization is only \$1,500.

Respectfully, First—Capitalization is only \$1,500. thing pertaining thereto; To purchase, affix our signatures this 381916. 600 in shares of the par value of \$1.00 lease, own or otherwise acquire, maineach, and no stock whatever will be tain and operate trucks, auto-trucks, on the market except that which drays, wagons, horses and any and all pusses through our house for 36 days kinds of horsedrawn, or motor-driven State of Arizona. vehicles for the uses and purposes of the Corporation; To purchase, buy, few dollars a share to over \$17 during ing of any and all kinds of freight. Third-The reports and exhibits goods, wares and merchandise of which we have in our office at this moment are mostly photographed copporations; To purchase, own, buy, lease, or otherwise acquire and to deal in real estate and personal property of every kind and description, and to sell, lease or otherwise dispose of the COUNTY OF MARICOPA, STATE same: To own and control shares of its own Capital Stock and that of In the Matter of the Estate of M. A. other Corporations and to vote any stock owned by it the same as a Notice of Sale of Real Estate at natural person might do: To issue bonds, notes, debentures and other

The Capital Stock of the Corpora-

tion shall be Twenty Thousand Dol-While the favorable outlook for the kers divided into two hundred shares metal is not based solely on the likeli. of the par value of one Hundred Dolhood of far-reaching changes to take lars each, which shall be paid in at place in the monetary systems of the such time as the Board of Directors from its reduction of sulphide ores and Since April 8, when the sampling mill world after this war, it is nevertheless may designate in cash, real or perto a telief, as some silver interests do, other valuable right or thing for the that many changes are sure to take uses and purposes of the Corporation, and all shares of the Capital Stock a when so issued shall thereupon and great deal of responsibility for the thereby become full paid the same as sudder change in the prospect of sil- paid for in cash at par, and shall be ver, which took place some months non assessable forever, and the judg-It would be idle to speculate on ment of the Directors as to the value probabilities in the event that war had of any property right or thing acnot occurred, but there are many who quired in exchange for Capital Stock

ARTICLE IV

The time of the Commencement of It is true, however, that the war has this Corporation shall be the date of

The affairs of this Corporation shall be conducted by a Board of Directors, the New York Curb Exchange last more than five to be determined by several thousand shares between Directors shall be elected by, and from 1 3-4 and 2. It is understood that the among the stockholders of the Comcompany has applied to the Curb As- pany on the first Tuesday in March sociation for listing, and that as soon of each year beginning in 1917. Unas the necessary papers have been re- til their successors are elected and ceived from the home office, Phoenix, qualified the following named per-

P. W. Chambers, Phoenix, Ariz. E. T. Hooper, Phoenix, Ariz. R. C. Shiflet, Phoenix, Ariz. ARTICLE VI

The President and Secretary of this among the best known capitalists op- Company, or either of them, are auerating in the southwest, controlling thorized to sell, transfer and convey, other holdings the Matador or mortgage, any and all real or per-Land & Cattle Co. W. C. Foster, the sonal property of this Company, upon vice-president is also treasurer of the such terms and conditions as they Phoenix Savings Bank & Trust Co. may deem for the best interest of the Charles Shannon, another director, Company; and are further authorized was formerly head of the Shannon and empowered to make, execute and deliver for and on behalf of the Com-The company's financial report pany all deeds and mortgages of and upon the property now owned by this counts receivable (contracts of sale of Company, or which may be hereafter treasury stock) \$86,300; and working acquired, also to execute assignments capitel of \$143,750; which is considered and releases of mortgages and leases ample for all development work. The and to satisfy and discharge any and entire capital stock is \$500,000, par all such instruments when they have been paid or satisfied.

ARTICLES OF INCORPORATION The Directors shall adopt by-laws Be it known, that we, the under- for the government of the Corporasigned residents of Phoenix, Maricopa tion and may amend the same. They County, Arizona, do hereby associate shall have power to fill vacancies in ourselves together and form a Cor- the Board from any cause, and to ap-

the extent provided by resolution or said County of Maricopa, State of Ariby sald by-laws, shall have and ex- zona, the following described real

ARTICLE VIII The highest amount of indebtedness with the improvements thereon con-Dollars.

forever exempt from its Corporate Court and delivery of Administrator's debts or obligations of any kind what- Deed, soever. In Witness whereof we hereto H. W. CHAMBERS

R. C. SHIPLET County of Maricopa-

The foregoing Articles of Incorperation were acknowledged before me this 8th day of March 1916, by H. W. Shiffet

G. J. CONRAD. (SEAL) Notary Public. My Com. Expires 2 70 1920.

IN THE SUPERIOR COURT OF THE OF ARIZONA

P. Tvirell, Deceased. NOTICE IS HEREBY GIVEN, That

means reached their top level is the evidences of indebtedness and secure in pursuance of an order of the Superconsensus of opinion among author- the payment of the same by mortg- for Court of the County of Maricopa, ities in this country. The various age, trust, deed or otherwise; To bor- State of Arizona, made on 20th day mints of the European governments row and loan money and in general of March, 1916, in the matter of the may reasonably be expected to con- to do and perform such acts and estate of M. A. R. Tyrrell deceased, time targe purchases during the duration of the war and long after peace connection with the foregoing objects the Estate of M. A. R. Tyrrell, de-Hayden Smeltery

The shird receiver and the silver situation of the world as the Board of Discussion of the silver situation of the world as the Board of Discussion o

p. m., at the front door of the County

The name of the Corporation is ereise the powers granted the Direc- property, to wit: Lot 15, Block 11, Collins Addition to the City of Phoenix, Maricopa County, Arizona, together

> Arizona. Terms of sale: Cash: payable 10%

Dated May 10, 1916.

R. M. FLEMING, Administrator of the Estate of M. A. R. Tyrrell, deceased.

Unlimited funds to loan on improved Salt River Valley ranch lands and Income Business

Dwight B. Heard

LOANS Center and Adams

When You Incorporate

Have the Republican Print Shop furnish you

Stock Certificates

100 or more up-to-date designs, pleasing, artistic and business-like, to select from, at

REPUBLICAN

Phoenix, Arizona

Phoenix Engraving Company

S. HARRY ROBERTSON

Phoce 1709

6th & Olive Sts., Los Angeles, Cal. H. A. Demarest The Oldest Automobile Tire Jobbing Concern in the United States the largest in the world.